ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

Report Date: September 06, 2017

Project: Arkema Refinery

Account #: 19740
Group Number: 1845793
SDG: WAR01
PO Number: ARKEMA REFINERY
State of Sample Origin: TX

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ . To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Weston Solutions Attn: Jeff Wright

Respectfully Submitted,

Ana Spencer
Project Manager

(281) 967-8096

SAMPLE INFORMATION

Client Sample Description	Collection Information	ELLE#
HH01-01-02-170901-21 Surface Water	09/01/2017 18:20	9190414
HH01-01-03-170901-21 Surface Water	09/01/2017 19:25	9190415
HH01-01-03-170901-22 Surface Water	09/01/2017 19:25	9190416
HH01-01-04-170901-21 Surface Water	09/01/2017 20:00	9190417
HH01-01-05-170901-21 Surface Water	09/01/2017 20:40	9190418
HH01-01-01-170901-21 Surface Water	09/01/2017 17:36	9190419

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: HH01-01-02-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190414
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 18:20

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

12-21 SDG#: WAR01-01

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**n.a.**	**n.a.**	**n.a.**	
12121	VOC Targeted Library Search	n.a.	Complete	0	0	1

00890 VOA GC/MS Library Search

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

GC/MS Semivolatiles	**SW-846 8270C**		**n.a.**	**n.a.**	**n.a.**	
12126	SVOC Targeted Library Search	n.a.	Complete	0	0	1

00893 Semivolatile Library Search

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

*=This limit was used in the evaluation of the final result

Sample Description: HH01-01-02-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190414
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 18:20

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

12-21 SDG#: WAR01-01

Sample Comments

State of Texas Lab Certification No. T104704194-17-23

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12121	VOC Targeted Library Search	SW-846 8260B	1	E172481AA	09/05/2017 13:28	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E172481AA	09/05/2017 13:28	Kevin A Sposito	1
12126	SVOC Targeted Library Search	SW-846 8270C	1	17246WAA026	09/05/2017 13:05	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	17246WAA026	09/04/2017 20:30	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

12-21

Lab Name: Lancaster Laboratories Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190414
Sample wt/vol: 5.0 (g/mL)mL Lab File ID:HP15648.i/17sep05a.b/es05s06.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: not dec. Date Analyzed: 09/05/17
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	VOCTIC	Total VOC TICs		0	U
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FORM I VOA-TIC

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

12-21

Lab Name:___Lancaster Laboratories___ Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190414
Sample wt/vol: 995 (g/mL) mL Lab File ID: bi0065.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: Decanted: (Y/N) Date Extracted: 09/04/17
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/17
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SVOCTIC	Total SVOC TICs		0	U
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page 1 of 1

FORM I SV-1

Sample Description: HH01-01-03-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190415
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 19:25

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

13-21 SDG#: WAR01-02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**n.a.**	**n.a.**	**n.a.**	
12121	VOC Targeted Library Search	n.a.	Complete	0	0	1

00890 VOA GC/MS Library Search

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

GC/MS Semivolatiles	**SW-846 8270C**		**n.a.**	**n.a.**	**n.a.**	
12126	SVOC Targeted Library Search	n.a.	Complete	0	0	1

00893 Semivolatile Library Search

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

*=This limit was used in the evaluation of the final result

Sample Description: HH01-01-03-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190415
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 19:25

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

13-21 SDG#: WAR01-02

Sample Comments

State of Texas Lab Certification No. T104704194-17-23

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12121	VOC Targeted Library Search	SW-846 8260B	1	E172481AA	09/05/2017 13:48	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E172481AA	09/05/2017 13:48	Kevin A Sposito	1
12126	SVOC Targeted Library Search	SW-846 8270C	1	17246WAA026	09/05/2017 13:26	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	17246WAA026	09/04/2017 20:30	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

1E

EPA SAMPLE NO.

13-21

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Lancaster Laboratories Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190415
Sample wt/vol: 5.0 (g/mL)mL Lab File ID:HP15648.i/17sep05a.b/es05s07.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: not dec. Date Analyzed: 09/05/17
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	VOCTIC	Total VOC TICs		0	U
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FORM I VOA-TIC

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

13-21

Lab Name: Lancaster Laboratories Contract:
Lab Code: LANCAS Case No.: SAS No.: SDG No.:
Matrix: (soil/water) WATER Lab Sample ID: 9190415
Sample wt/vol: 943 (g/mL) mL Lab File ID: bi0066.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: Decanted: (Y/N) Date Extracted: 09/04/17
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/17
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. SVOCTIC	Total SVOC TICs		0	U
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page 1 of 1

FORM I SV-1

Sample Description: HH01-01-03-170901-22 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190416
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 19:25

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

13-22 SDG#: WAR01-03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**n.a.**	**n.a.**	**n.a.**	
12121	VOC Targeted Library Search	n.a.	Complete	0	0	1

00890 VOA GC/MS Library Search

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

GC/MS Semivolatiles	**SW-846 8270C**		**n.a.**	**n.a.**	**n.a.**	
12126	SVOC Targeted Library Search	n.a.	Complete	0	0	1

00893 Semivolatile Library Search

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

*=This limit was used in the evaluation of the final result

Sample Description: HH01-01-03-170901-22 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190416
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 19:25

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

13-22 SDG#: WAR01-03

Sample Comments

State of Texas Lab Certification No. T104704194-17-23

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12121	VOC Targeted Library Search	SW-846 8260B	1	E172481AA	09/05/2017 14:09	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E172481AA	09/05/2017 14:09	Kevin A Sposito	1
12126	SVOC Targeted Library Search	SW-846 8270C	1	17246WAA026	09/05/2017 13:47	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	17246WAA026	09/04/2017 20:30	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

1E

EPA SAMPLE NO.

13-22

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Lancaster Laboratories Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190416
Sample wt/vol: 5.0 (g/mL)mL Lab File ID:HP15648.i/17sep05a.b/es05s08.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: not dec. Date Analyzed: 09/05/17
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	VOCTIC	Total VOC TICs		0	U
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page 1 of 1

FORM I VOA-TIC

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

13-22

Lab Name:___Lancaster Laboratories___ Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190416
Sample wt/vol: 979 (g/mL) mL Lab File ID: bi0067.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: Decanted: (Y/N) Date Extracted: 09/04/17
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/17
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SVOCTIC	Total SVOC TICs		0	U
2.					
3.					
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page 1 of 1

FORM I SV-1

Sample Description: HH01-01-04-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190417
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 20:00

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

14-21 SDG#: WAR01-04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**n.a.**	**n.a.**	**n.a.**	
12121	VOC Targeted Library Search	n.a.	Complete	0	0	1

00890 VOA GC/MS Library Search

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

GC/MS Semivolatiles	**SW-846 8270C**		**n.a.**	**n.a.**	**n.a.**	
12126	SVOC Targeted Library Search	n.a.	Complete	0	0	1

00893 Semivolatile Library Search

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

*=This limit was used in the evaluation of the final result

Sample Description: HH01-01-04-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190417
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 20:00

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

14-21 SDG#: WAR01-04

Sample Comments

State of Texas Lab Certification No. T104704194-17-23

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12121	VOC Targeted Library Search	SW-846 8260B	1	E172481AA	09/05/2017 14:29	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E172481AA	09/05/2017 14:29	Kevin A Sposito	1
12126	SVOC Targeted Library Search	SW-846 8270C	1	17246WAA026	09/05/2017 14:08	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	17246WAA026	09/04/2017 20:30	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

1E

EPA SAMPLE NO.

14-21

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Lancaster Laboratories Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190417
Sample wt/vol: 5.0 (g/mL)mL Lab File ID:HP15648.i/17sep05a.b/es05s09.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: not dec. Date Analyzed: 09/05/17
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	VOCTIC	Total VOC TICs		0	U
2.					
3.					
4.					
5.					
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page 1 of 1

FORM I VOA-TIC

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

14-21

Lab Name:___Lancaster Laboratories___ Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190417
Sample wt/vol: 897 (g/mL) mL Lab File ID: bi0068.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: Decanted: (Y/N) Date Extracted: 09/04/17
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/17
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SVOCTIC	Total SVOC TICs		0	U
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page 1 of 1

FORM I SV-1

Sample Description: HH01-01-05-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190418
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 20:40

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

15-21 SDG#: WAR01-05

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**n.a.**	**n.a.**	**n.a.**	
12121	VOC Targeted Library Search	n.a.	Complete	0	0	1

00890 VOA GC/MS Library Search

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

GC/MS Semivolatiles	**SW-846 8270C**		**n.a.**	**n.a.**	**n.a.**	
12126	SVOC Targeted Library Search	n.a.	Complete	0	0	1

00893 Semivolatile Library Search

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

*=This limit was used in the evaluation of the final result

Sample Description: HH01-01-05-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190418
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 20:40

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

15-21 SDG#: WAR01-05

Sample Comments

State of Texas Lab Certification No. T104704194-17-23

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12121	VOC Targeted Library Search	SW-846 8260B	1	E172481AA	09/05/2017 14:50	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E172481AA	09/05/2017 14:50	Kevin A Sposito	1
12126	SVOC Targeted Library Search	SW-846 8270C	1	17246WAA026	09/05/2017 14:29	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	17246WAA026	09/04/2017 20:30	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
15-21

Lab Name: Lancaster Laboratories Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190418
Sample wt/vol: 5.0 (g/mL)mL Lab File ID:HP15648.i/17sep05a.b/es05s10.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: not dec. Date Analyzed: 09/05/17
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	VOCTIC	Total VOC TICs		0	U
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page 1 of 1

FORM I VOA-TIC

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

15-21

Lab Name: Lancaster Laboratories Contract:
Lab Code: LANCAS Case No.: SAS No.: SDG No.:
Matrix: (soil/water) WATER Lab Sample ID: 9190418
Sample wt/vol: 951 (g/mL) mL Lab File ID: bi0069.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: Decanted: (Y/N) Date Extracted: 09/04/17
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/17
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf

CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SVOCTIC	Total SVOC TICs		0	U
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page 1 of 1

FORM I SV-1

Sample Description: HH01-01-01-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190419
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 17:36

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

11-21 SDG#: WAR01-06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**n.a.**	**n.a.**	**n.a.**	
12121	VOC Targeted Library Search	n.a.	Complete	0	0	1

00890 VOA GC/MS Library Search

The results from the volatile library search are listed on the attached FORM 1 - VOA-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

GC/MS Semivolatiles	**SW-846 8270C**		**n.a.**	**n.a.**	**n.a.**	
12126	SVOC Targeted Library Search	n.a.	Complete	0	0	1

00893 Semivolatile Library Search

The results from the semivolatile library search are listed on the attached FORM 1 - SV-TIC. The qualifiers appearing in the "Q" column are defined on the back of this form.
A library search against NIST 11 was performed on this sample with the intent of targeting the following suspected potential contaminants, and the potential breakdown products of the compounds.

Neodecaneperoxoic acid, 1,1- dimethylpropyl ester
Naphtha (petroleum), heavy alkylate
Naphtha (petroleum), hydrotreated heavy
Hydroperoxide, 1,1-dimethylpropyl
Peroxydicarbonic acid, dipropyl ester
Neodecaneperoxoic acid, 1-methyl-1- phenylethyl ester
Propaneperoxoic acid, 2,2-dimethylehtyl ester, 1,1-dimethylethyl ester
Peroxide, bis(1,1-dimethylpropyl)

The library search did not detect or identify any presumptive positive identifications.

*=This limit was used in the evaluation of the final result

Sample Description: HH01-01-01-170901-21 Surface Water

Project Name: Arkema Refinery

ELLE Sample # WW 9190419
ELLE Group # 1845793
Account # 19740

Collected: 09/01/2017 17:36

Submitted: 09/03/2017 11:05
Reported: 09/06/2017 19:00

Weston Solutions
13702 Coursey Blvd
Bldg #7, STE A
Baton Rouge LA 70817

11-21 SDG#: WAR01-06

Sample Comments

State of Texas Lab Certification No. T104704194-17-23

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
12121	VOC Targeted Library Search	SW-846 8260B	1	E172481AA	09/05/2017 15:10	Matthew S Krause	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	E172481AA	09/05/2017 15:10	Matthew S Krause	1
12126	SVOC Targeted Library Search	SW-846 8270C	1	17246WAA026	09/05/2017 14:50	Linda M Hartenstine	1
00813	BNA Water Extraction	SW-846 3510C	1	17246WAA026	09/04/2017 20:30	Karen L Beyer	1

*=This limit was used in the evaluation of the final result

1E

EPA SAMPLE NO.

11-21

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Lancaster Laboratories Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190419
Sample wt/vol: 5.0 (g/mL)mL Lab File ID:HP15648.i/17sep05a.b/es05s11.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: not dec. Date Analyzed: 09/05/17
Column: (pack/cap) CAP Dilution Factor: 1.0
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	VOCTIC	Total VOC TICs		0	U
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page 1 of 1

FORM I VOA-TIC

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

11-21

Lab Name:___Lancaster Laboratories___ Contract:_____
Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____
Matrix: (soil/water) WATER Lab Sample ID: 9190419
Sample wt/vol: 961 (g/mL) mL Lab File ID: bi0070.d
Level: (low/med) LOW Date Received: 09/03/17
% Moisture: Decanted: (Y/N) Date Extracted: 09/04/17
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 09/05/17
Injection Volume: 1 (uL) Dilution Factor: 1
GPC Cleanup: N pH: Extraction: Sepf
CONCENTRATION UNITS:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SVOCTIC	Total SVOC TICs		0	U
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FORM I SV-1

Quality Control Summary

Client Name: Weston Solutions
Group Number: 1845793
Reported: 09/06/2017 19:00

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

*- Outside of specification
**-This limit was used in the evaluation of the final result for the blank
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

19740 1845793 9190414-19

USEPA

DateShipped:

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 66666

Contact Name: Jeff Wright

Contact Phone:

No: 6-090117-212820-0002

Cooler #:

Lab: Eurofins Lancaster Laboratories Environmental

Lab Phone: 717-656-2300

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	HH01-01-02-170901-21	2	Arkema Analysis VOC	Surface Water	9/1/2017	18:20	3	40 ml VOA	4 C	
	HH01-01-02-170901-21	2	Arkema Analysis SVOC	Surface Water	9/1/2017	18:20	2	1 liter amber	4 C	
	HH01-01-03-170901-21	3	Arkema Analysis VOC	Surface Water	9/1/2017	19:25	3	40 ml VOA	4 C	
	HH01-01-03-170901-21	3	Arkema Analysis SVOC	Surface Water	9/1/2017	19:25	2	1 liter amber	4 C	
	HH01-01-03-170901-22	3	Arkema Analysis VOC	Surface Water	9/1/2017	19:25	3	40 ml VOA	4 C	
	HH01-01-03-170901-22	3	Arkema Analysis SVOC	Surface Water	9/1/2017	19:25	2	1 liter amber	4 C	
	HH01-01-04-170901-21	4	Arkema Analysis VOC	Surface Water	9/1/2017	20:00	3	40 ml VOA	4 C	
	HH01-01-04-170901-21	4	Arkema Analysis SVOC	Surface Water	9/1/2017	20:00	2	1 liter amber	4 C	
	HH01-01-05-170901-21	5	Arkema Analysis VOC	Surface Water	9/1/2017	20:40	3	40 ml VOA	4 C	
	HH01-01-05-170901-21	5	Arkema Analysis SVOC	Surface Water	9/1/2017	20:40	2	1 liter amber	4 C	
	HH01-01-01-170901-21	1	Arkema Analysis VOC	Surface Water	9/1/2017	17:36	3	40 ml VOA	4 C	
	HH01-01-01-170901-21	1	Arkema Analysis SVOC	Surface Water	9/1/2017	17:36	6	1 liter amber	4 C	

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
6	Thomas G. Wright	9/1/2017			
			Anneliese H. Owen ELLE	9/3/17 1105	intact

Client: USEPA

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Timestamp:	09/03/2017 11:05
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	TX		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	N/A
Samples Chilled:	Yes	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	No
Samples Intact:	Yes		
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	Yes		

Unpacked by Anneliese Owen (210) at 12:05 on 09/03/2017

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	32170023	1.2	IR	Wet	Y	Bagged	N
2	32170023	1.4	IR	Wet	Y	Bagged	N

Container Quantity Discrepancy Details

Sample ID on COC	Container Qty. Received	Container Qty. on COC	Comments
HH01-01-05-170901-21	12	5	Received 6 vials and 6 amber liters
HH01-01-01-170901-21	5	9	Received 3 vials and 2 amber liters

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mg**	milligram(s)
C	degrees Celsius	**mL**	milliliter(s)
cfu	colony forming units	**MPN**	Most Probable Number
CP Units	cobalt-chloroplatinate units	**N.D.**	non-detect
F	degrees Fahrenheit	**ng**	nanogram(s)
g	gram(s)	**NTU**	nephelometric turbidity units
IU	International Units	**pg/L**	picogram/liter
kg	kilogram(s)	**RL**	Reporting Limit
L	liter(s)	**TNTC**	Too Numerous To Count
lb.	pound(s)	**µg**	microgram(s)
m3	cubic meter(s)	**µL**	microliter(s)
meq	milliequivalents	**umhos/cm**	micromhos/cm

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.